CLAIMS:

1. A system (1) for use underwater for removing particulates from water, comprising dynamic separating means (5) for removing particulates from water, and pumping means (8) downstream from the dynamic separating means (5) for drawing water upstream of the separating means into the separating means.

2. The system as claimed in claim 1, wherein the pumping means (8) is arranged to inject at least substantially particulate free water from the dynamic separating means (5) into a hydrocarbon reservoir at a pressure higher than the pressure of the fluid in the reservoir.

3. The system as claimed in claim 1 or 2, including means (6) for collecting particulates separated from said water by the dynamic separating means (5).

4. The system as claimed in claim 3, including a combined dynamic separating and particulate collecting means (31).

5. The system as claimed in claim 3 or 4, including means (7,32) for removing collected particulates from the particulate collecting means (6).

6. The system as claimed in claim 5, including means (24,30) for directing at least some of the at least substantially particulate free water from the dynamic separating means (5) to the particulate removal means (7) to enable the particulate removal means to remove collected particulates.

7. The system as claimed in claim 5 or 6, wherein the particulate removal means (7) is arranged to periodically remove collected particulates.

8. The system as claimed in claim 5 or 6, wherein the particulate removal means (32) is arranged to continuously remove collected particulates.

9. The system as claimed in any one of claims 5 to 8, wherein the particulate removal means (32) comprises a venturi flume.

10. The system as claimed in any preceding claim, wherein the dynamic separating means (5) comprises a hydrocyclone.

11. The system as claimed in any preceding claim, including a filter (13) upstream of the dynamic separating means (5).

12. A retrievable module (2) for use with a modular seabed processing system, the module (2) incorporating the system (1) as claimed in any preceding claim.

13. An underwater method for removing particulates from water, comprising the steps of pumping water downstream of dynamic separating means (5) to draw water upstream of the separating means into the separating means, and separating particulates from the water in the dynamic separating means.

14. The method as claimed in claim 13, including the subsequent step of injecting at least substantially particulate free water from the dynamic separating means (5) into a hydrocarbon reservoir at a pressure higher than the pressure of the fluid in the reservoir.